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Research & Engineering Center
December 18, 1970

F. L. Pundsack

ASBESTOS PRODUCTS IN SHIPS

You asked that I make a survey to estimate the yearly quantities of asbestos products used in U.S. ships and shipyards for the period 1938 to the present. This assignment proved to be more difficult than I had originally believed. Unfortunately, we could not find any reliable chronological data on the numbers and sizes of shipyards in the U.S. Therefore, the attached survey provides only our estimates of asbestos products installed in ships as they were constructed through the years.

Separate attachments have also been provided to indicate our sources of information and the methods used to reach these estimates.

The values given on MARINITE and the more recent values for asbestos-cement products are probably quite reliable. The others, however, represent our best estimates which are reliable only to the degree of the correctness of our limited data and assumptions.

W. C. Streib

v

Attachments

cc: J. R. M. Hutcheson, Asbestos
S. Speil
F. M. Bodycomb

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December 18, 1970

ESTIMATED ASBESTOS PRODUCTS USED IN U.S. SHIPBUILDING

Year	Adjusted Tonnage In '000 Tons			Estimated Tonnage of Asbestos Products					Total Asbestos Products Tons	Estimated Total Tons of Asbestos In Asbestos Products
	Merchant	Naval	Total	MARINITE	Floor Tile	Paper	A/C	Insulations & Others		
1938	122*	50*	172	0	0	3	12	110	125	38
1939	274*	100*	374	0	0	6	52	238	296	90
1940	445	200*	645	1,000	0	11	90	411	1,512	605
1941	749	686	1,435	1,744	0	23	200	914	2,881	1,128
1942	5,393	2,400*	7,793	5,391	0	128	1,087	4,962	11,568	4,292
1943	12,486	3,447	15,933	5,833	0	261	2,223	10,144	18,461	6,440
1944	11,402	4,943	16,345	6,431	0	267	2,280	10,406	19,384	6,808
1945	7,615	2,675	10,290	3,416	0	168	2,871	6,551	13,006	4,436
1946	646	595	1,241	3,971	18	20	520	790	5,319	2,191
1947	247	95	342	4,545	9	6	191	218	4,969	2,171
1948	159	34	193	5,789	9	3	162	123	6,086	2,693
1949	541	76	617	2,311	41	10	689	393	3,444	1,375
1950	405	0	405	2,311	27	7	566	258	3,169	1,294
1951	147	88*	235	3,802	14	4	328	150	4,298	1,857
1952	398	110*	508	3,231	36	8	709	323	4,307	1,773
1953	570	220*	790	2,862	63	13	1,102	503	4,543	1,784
1954	585	165*	750	2,078	59	12	1,046	477	3,672	1,406
1955	119	132*	251	2,258	23	4	352	160	2,797	1,175
1956	113	55*	168	2,582	14	3	234	107	2,940	1,267
1957	297	55*	352	2,238	32	6	492	224	2,992	1,229
1958	572	110*	682	1,907	63	11	952	434	3,367	1,288
1959	713	165*	878	1,555	95	14	374	559	2,597	1,001
1960	410	187	597	1,411	68	10	465	380	2,334	904
1961	402*	176*	578	1,187	68	9	518	368	2,150	814
1962	392	165*	557	1,575	68	9	1,120	355	3,127	1,167
1963	418	143*	561	1,181	77	9	545	357	2,169	820
1964	213	132*	345	1,144	45	6	435	220	1,850	722
1965	173	112	285	1,107	41	5	627	181	1,961	749
1966	146	121*	267	744	36	4	611	170	1,565	585
1967	143	132*	275	606	36	5	645	175	1,467	526
1968	319	152	471	996	63	8	590	300	1,957	728
1969	418	156	574	996	77	9	507	365	1,954	725
									142,267	54,081

*Est.

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ATTACHMENT I

SOURCES OF INFORMATION

1. "Statistical Abstract of the U.S." - Printed by the U.S. Government Printing Office from information supplied by the Bureau of Census, Dep't of Commerce.

2. Maritime Administration, Washington, D.C.
   a). Office of Public Affairs
   b). Div. of Engineering, Office of Ship Construction
   c). Div. of Production

3. U. S. Merchant Marine Academy Library, Kings Point, N.Y.

4. JM Government Department, Washington, D.C.

5. JM Research Library

6. JM Operating Division Information
   a). Industrial Insulations
   b). Packings & Friction Materials
   c). Building Products
   d). AFD Fiber Sales
   e). International Division Exports to Foreign Shipbuilders

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ATTACHMENT II

ASSUMPTIONS MADE IN ESTIMATING SHIP CONSTRUCTION TONNAGES

Tonnage data principally from "Statistical Abstract of the U.S."

Assumptions and Modifications

1. Information from 1950 covered only private yard construction of naval vessels. An additional 10% was added to each year's naval vessels as an estimate of construction in Navy yards.

2. During the war years, 1941-1945 inclusive, there was an enormous jump in the total number of naval vessels which included the production of thousands of small landing craft and barges. These vessels probably contained a minimal amount of asbestos products. Hence, for these years we deducted 20% of the total tonnage to account for these small vessels when using ship tonnage ratios to estimate certain product usages.

F. L. Pundsack
December 18,1970

ATTACHMENT III

BASES FOR ESTIMATING EACH MAJOR PRODUCT CATEGORY

MARINITE

1. 1959-1969 values were based on actual JM marine sales and estimate of JM's per cent of market. These were cross-checked against actual fiber tonnages shipped to Billerica plant and an estimate of the per cent of MARINITE production going into marine applications.

2. 1938-1958 values were based on actual yearly fiber tonnages shipped to Billerica plant and an estimate of the yearly per cent of production going into marine applications.

FLOOR TILE & PAPER

1. Based on data from recent International quotations for a 33,000-ton container ship being built in Rotterdam.

2. Yearly estimates based on ship tonnages, modified by the general tile industry's performance and an estimate of the percentage of ships likely to contain such products.

ASBESTOS-CEMENT

1. 1959-1969 values were based on actual Marine Veneer and Dekeran sales into marine field.

2. 1938-1958 values were estimated on the basis of the average asbestos-cement product tonnage used per average tonnage of shipping built from 1959-1969. These values were then modified by an estimate of the percentage of ships which might be likely to contain such products.

INSULATIONS & OTHERS

1. The Maritime Administration provided us with the quantities of pipe covering, lagging and per cent insulations normally used on a 21,000-ton ship. To this were added estimates for packings, gaskets, fire screens, friction materials, caulking compounds, textiles and textile-type products.

2. Yearly tonnages of these products were then estimated by ratioing the ship construction tonnages as described in Attachment I.

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ACOUSTICAL

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Akoustikos Felt	1927-1943 Manville	40	Chrysotile
J-M "No. 61"	1958-1960 Manville	5	Amosite
Nashkote	1927-1943 Manville	35-40	Chrysotile
Perforated Flexboard Sheets	1934-1974 Nashua	33-35	Chrysotile
Sanacoustic Pad Cover Paper	1940-1945	95.7	Chrysotile
Spongecoustic	1938-1943 Manville	8.85-10	Chrysotile
Transite Acoustical Panels	1931-1975 Nashua	44	Chrysotile

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ASBESTOS CEMENT SHEET, ARCHITECTURAL PANELS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Aegan/Colorlith	1954-1975 Colorlith 1975-1985 Aegan Nashua	35.9-46	Chrysotile
Armor - On	1973-1975 Nashua	30.7	Chrysotile
Cragmont/Klefstone	1977-1985 Waukegan	36-36.9	Chrysotile
Quadro	1972-1985 Nashua	35-42	Chrysotile
Rentone	1977-1985 Waukegan	11-29	Chrysotile
Santone	1977-1985 Nashua	36-36.9	Chrysotile
Splitwood II	1971-1977 Waukegan 1977-1985 Nashua	28.3-30 36-36.9	Chrysotile
Stipple	1962-1985 Waukegan	33	Chrysotile
Stonehenge	1969-1985 Nashua	36-41.6	Chrysotile
Transitop	1933-1941 Nashua 1941-1976 Waukegan Nashua Manville Billerica	4-7	Chrysotile
Venetia	1971-1976 Nashua	40-45.5	Chrysotile

ASBESTOS CEMENT SHEET/BOARD

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Asbestosboard	1939-1985 Manville Nashua Waukegan Pittsburg	23-32.5	Chrysotile
Asbestocite	1941-1965 Waukegan Nashua Pittsburg	33-45	Chrysotile
101 Asbestos Millboard	1911-1951 Manville Waukegan	101 69.2-77 101 "S" 78.4-79.5	Chrysotile
102 Asbestos Millboard	1911-1980 Manville Waukegan	75-86.6	Chrysotile
103 Asbestos Millboard	1911-1951 Manville Waukegan	76-90	Chrysotile
104 Asbestos Millboard	1931-1951 Manville	92.8	Chrysotile
105 Asbestos Millboard	1929-1951 Manville Waukegan	77-92.8	Chrysotile
106 Asbestos Millboard	1918-1980 Manville Waukegan	70-80	Chrysotile and/or Amosite
106B Asbestos Millboard	1918-1980 Manville	95	Chrysotile
106H Asbestos Millboard	1918-1980 Manville	87	Chrysotile
219 Asbestos Millboard	1918-1980 Manville Waukegan	84-86.8	Chrysotile
C Asbestos Millboard	1918-1980 Manville	62-67.6	Chrysotile
Type A Asbestos Millboard	1918-1980 Manville	48	Chrysotile

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ASBESTOS CEMENT SHEET/BOARD

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
XXX Asbestos Millboard	1918-1980 Manville	72.2	Chrysotile
Chemstone	1933-1985 Nashua	2.1 Amosite 15-50 Chrysotile	Chrysotile & Amosite
Colorbestos (clapboard)	1950-1966 Marrero Manville	15-20	Chrysotile
Colorceran/Colorlith	1953-1985(Colorlith) 1963-85(Colorceran) Nashua Billerica	34-45	Chrysotile and/or Amosite
Colorchip (Colorlith chips)	1961-1969 Nashua	44-45	Chrysotile and/or Amosite
Colorthin	1962-1975 Nashua	30.7-42.9	Chrysotile
Colorvein	1962-1969 Nashua	34-43.5	Chrysotile and/or Amosite
Flexboard	1934-1985 Nashua Waukegan Manville Billerica Pittsburg	Standard 33-50 Permatone "S" 33-35 Decorative 48	Chrysotile
Terraceran	1965-1969 Billerica Nashua	45.8	Chrysotile
Flat Transite	1907-1986 Nashua Waukegan	22-69.2	Chrysotile and/or Amosite
Corrugated Transite	1918-1977 Waukegan Nashua Pittsburg Manville	31-50.5	Chrysotile
Reeferite	1950-1974 Billerica	29	Chrysotile

ASBESTOS-CEMENT SHEET/BOARD, INSULATING PANEL

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Thermocore	1970-1976 Waukegan	6-9	Amosite & Chrysotil
Thermostone	1958-1974 Waukegan	6-11	Amosite & Chrysotil

ASBESTOS - CONTAINING SHEET/BOARD

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Marinite	1936-1975 Manville Billerica Nashua	40-50	Chrysotile and/or Amosite, Amolite
Marinite 23	1955-1975 Billerica	25	Amosite
Marinite 30	1949-1970 Billerica	49.7-50	Amosite
Marinite 36	1955-1975 Billerica Nashua	29.7-57	Chrysotile and/or Amosite
Marinite 65	1945-1976 Billerica	55.5-70	Chrysotile
Imperial Marinite	1941-1973 Billerica	40-50	Chrysotile and/or Amosite
Metal Veneered Marinite	1951-1973 Billerica	15-40	Chrysotile
Veneered Marinite	1955-1975 Billerica	16-41	Chrysotile and/or Amosite

BUILT-UP ROOFING; BOARD/SHEET

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Colorbestos	1937-1981 Asbestos Manville Waukegan	19.5-34	Chrysotile
Flexstone	1937-1963 Asbestos Manville Los Angeles Waukegan	59-66.3	Chrysotile

BUR; COATING

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Aertite	1919-1978 Manville Waukegan	15-18	Chrysotile
Black Fibrous Enamel	1937-1943 Manville	8	Chrysotile
Topgard "B"	(Vendor Item)	5-6	
Topgard "F"	1939-1980 Ft. Worth Los Angeles Manville Waukegan Pittsburg Marrero	2-8	Chrysotile

BUR; FELTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
15lb. Felt	1923-1983 Los Angeles Manville Waukegan Pittsburg Marrero	75-95	Chrysotile
45lb. Felt	1931-1983 Los Angeles Manville Waukegan Pittsburg Marrero	84-85	Chrysotile
50lb. Felt	1929-1976 Los Angeles Manville Waukegan Pittsburg Marrero	50-55	Chrysotile
7700 Felt	1931-1983 Manville Waukegan Pittsburg Marrero	24-26	Chrysotile
Ajax	1913-1922 Manville	91.4-93	Chrysotile
American Colonial Felt	1952-1962 Manville Waukegan Marrero Pittsburg	11-25.5	Chrysotile
Asbestogard Felt Roll	1968-1983 Waukegan	57.8-61.5	Chrysotile
Blak-Kap Duplex	1968-1977 Waukegan Pittsburg	23.8-25.5	Chrysotile
Blue Chip	1972-1980 Ft. Worth Los Angeles Manville Marrero Pittsburg Waukegan Savannah	50-56.7	Chrysotile

BUR; FELTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Centurian Felt Roll	1971-1983 Los Angeles Manville Waukegan Savannah Pittsburg	13.4-58	Chrysotile
Duplex No. 70	1928-1984 Nashua	50-69	Chrysotile
Flexstone	1924-1929 Waukegan Asbestos	75-75.7	Chrysotile
D C Flexstone	1929-1977 Pittsburg Waukegan Los Angeles	30-33	Chrysotile
D C Flexstone	1978-1983 Pittsburg Waukegan Manville	15-16	Chrysotile
Flexstone No. 80	1959-1984 Waukegan Los Angeles Pittsburg	30-33	Chrysotile
Flexstone	1945-1952 Pittsburg	48	Chrysotile
Goldline Felt	1973-1982 Pittsburg Los Angeles	50-84	Chrysotile
Kolor - Kap	1967-1975 Los Angeles Pittsburg Savannah Waukegan Marrero	14.6-16	Chrysotile
Last-O-Bestos Membrane	1962-1969 Chicago	34.7	Chrysotile
Phoenix Base Felt	1909-1923 Manville	90	Chrysotile
Salamander	1909-1979 Manville	48-86	Chrysotile

BUR; FELTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Smooth Surfaced Flex-stone	1945-1952 Pittsburg	48	Chrysotile
10lb. Transhield	1929-1983	50-76.9	Chrysotile
Transite 70	1932-1977 Manville	35	Chrysotile
Twin - 20	1969-1980 Ft. Worth Los Angeles Manville Marrero Pittsburg Waukegan Savannah	55	Chrysotile
Ventsulation	1962-1979 Manville Pittsburg Savannah Marrero Los Angeles	11.6-14.5	Chrysotile
White Top	1909-1968 Manville Waukegan Pittsburg	48-98	Chrysotile

BUR; FLASHING

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Asbestos Base Flashing	1929-1983 Manville Waukegan	22-26	Chrysotile
Asbestos Base Flashing (heavy flashing)	1937-1983 Manville Waukegan	41.7	Chrysotile
Foil-Felt	1960-1963 Manville	55	Chrysotile

FLOORING

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Asphalt Standard Tile	1951-1969 Chilicothe Manville	15-36	Chrysotile
Type "A" Asphalt Tile	1932-1950 Manville Waukegan	28.5-59.5	Chrysotile
Dura-Tred Plank	1929-1981 Dayton Manville	0-15	Chrysotile
Tapestry Tile	1963-1969 Chilicothe Manville	15-18	Chrysotile
Terraceran	1965-1969 Nashua Billerica	45.8	Chrysotile
Terraflex	1947-1970 Chilicothe Manville Waukegan Marrero	14.25-22	Chrysotile

ROOFING CEMENT

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Aquapatch	1956-1977 Manville Waukegan Pittsburg Marrero	13	Chrysotile
Asbestile	1928-1983 Pittsburg Los Angeles Manville Asbestos Waukegan Marrero	9-10	Chrysotile
Duplex	1940-1984 Manville Marrero Waukegan Pittburg	14-14.7	Chrysotile
Kolor-Kap	1973-1979 Ft. Worth Waukegan Manville Marrero Pittsburg	8.4-10.9	Chrysotile
Last-O-Lap	1962-1969 Chicago	2-3.6	Chrysotile

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ROOFING SHINGLES

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
American Colonial	1952-1962 Manville Waukegan Marrero Pittsburg	11-25.5	Chrysotile
Bel Air	1966-1971 Manville	28.4-33.3	Chrysotile
Cedargrain	1940-1976 Manville Marrero Pittsburg	11-33.3	Chrysotile
Colorbestos	1956-1976 Waukegan Manville Marrero Pittsburg	11-20	Chrysotile
Colorbestos Slate Roofing	1970-1972 Waukegan Marrero Pittsburg	15-30	Chrysotile
Copper Asbestos Roofing	1937-1943 Marrero	31	Chrysotile
Durabestos	1943-1968 Asbestos	13.7-30	Chrysotile
Dutch Lap	1939-1977 Marrero Pittsburg Manville Los Angeles	11-25.5	Chrysotile
FGA Fire-Glass	1966-1979 Madison Ft. Worth Marrero Savannah Los Angeles Manville Pittsburg Waukegan	.5-1	Chrysotile

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ROOFING SHINGLES

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
FGA Fire-King	1966-1974 Waukegan Ft. Worth Los Angeles Marrero Manville Madison Pittsburg Savannah	.5-1	Chrysotile
FGA Rampart	1969-1974 Waukegan Ft. Worth Los Angeles Marrero Manville Madison Pittsburg Savannah	.5-1	Chrysotile
FGA Townsend	1968-1971 Manville	.4-1	Chrysotile
Flexbestos	1963-1971 Pittsburg	9-11	Chrysotile
Flexstone Asbestos Twin	1938-1977 Waukegan Los Angeles Pittsburg	5	Chrysotile
Flexstone	1959-1977 Manville Waukegan Pittsburg	12-15	Chrysotile
Hexagonal	1930-1976 Los Angeles Ft. Worth Savannah Marrero Waukegan Pittsburg Madison	11-15	Chrysotile
J-M Weathered Shingles	1932-1937 Waukegan Los Angeles Pittsburg	75-76	Chrysotile

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ROOFING SHINGLES

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Metalok	1956-1976 Savannah Ft. Worth Marrero	.5-1	Chrysotile
Ranch Design	1955-1976 Marrero Pittsburg	11-16.6	Chrysotile
Ridge-Roll	1929-1944 Manville Pittsburg Waukegan Marrero Gretna	77.7	Chrysotile
Ridge Roll (Colorbestos)	1958-1965 Waukegan	33	Chrysotile
Rigid	1907-1943 Waukegan Nashua Pittsburg Manville Marrero	25-49	Chrysotile
Rigid (Colorbestos)	1937-1968 Asbestos Waukegan Manville Pittsburg	22.6-30	Chrysotile
Salem	1931-1967 Manville Pittsburg	9-15	Chrysotile
Seal-O-Matic	1957-1974 Los Angeles Ft. Worth Manville Marrero Pittsburg Savannah Waukegan	.4-1	Chrysotile
Seal-O-Matic (Class "A")	1963-1972 Manville Ft. Worth Los Angeles Marrero	2.7-7.2	Chrysotile
Shakegrain (Colorbestos)	1960-1976	11-20	Chrysotile

ROOFING SHINGLES

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
The Garrison	1972-1977 Ft. Worth Los Angeles Manville Marrero Savannah Waukegan	2.7-7.2	Chrysotile
Togany (Colorbestos)	1966-1971 Manville	13-20	Chrysotile
Trugrain (Rockshake)	1961-1976 Manville	16-19	Chrysotile
Western Shake	1970-1976 Marrero Pittsburg	7-9	Chrysotile

SIDING SHINGLES

NAME OF PRODUCT	DATE/MFG.	% FIBER	TYPE FIBER
Brick-Type	1934-1957 Manville Waukegan Marrero Pittsburg 1957-1981 Manville Asbestos	23-28 (1934-1957) 7 (1957-1981)	Chrysotile
Cedargrain	1930-1971 Manville Waukegan Pittsburg Marrero	16-31	Chrysotile
Colorbestos	1952-1976 Manville	15-20	Chrysotile
Colorbestos - Shake	1939-1976 Manville Waukegan Marrero Pittsburg	15-20	Chrysotile
Great Lakes Siding Shingles	1944-1945 Waukegan	30	Chrysotile
Homestead	1962-1975 Pittsburg Manville Waukegan Marrero	16-19	Chrysotile
Ranchgrain	1968-1971 Pittsburg	15-20	Chrysotile
Rock - Shakes	1959-1976 Waukegan Pittsburg Manville Marrero	16-19	Chrysotile
Ruff-Tex	1961-1976	16-20	Chrysotile
Salem Colonial	1931-1976 Manville Marrero	10-15	Chrysotile

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SIDING SHINGLES

NAME OF PRODUCT	DATE/MFG.	% FIBER	TYPE FIBER
Smoothgrain	1940-1966 Waukegan Pittsburg Manville	16-27.5	Chrysotile
White and Gray Shake	1938-1976 Asbestos Manville Waukegan Marrero Pittsburg Los Angeles	13.4-22.4	Chrysotile

SIDING SHEET/PANEL

NAME OF PRODUCT	DATE/MFG.	% FIBER	TYPE FIBER
Asbestoside	1937-1949 Manville Waukegan Asbestos	57-58.6	Chrysotile
Colorbestos Sheets	1952-1966 Manville	35.8	Chrysotile
Corrugated Transite	1920-1985 Nashua Waukegan	31-50	Chrysotile
Royal Rock Shakes	1968-1971 Manville Marrero	15-20	Chrysotile
Togany	1966-1971 Manville	12-20	Chrysotile

THERMAL INSULATION, BLOCK

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
85% Magnesia	1902-1971 Manville Waukegan Redwood City	7.3-15	Chrysotile and/ or amosite
Min-K 500	1958-1977 Manville	5	Amosite
Min-K 1301	1958-1975 Manville	5-12	Amosite
Min-K 2000	1959-1975 Manville	5-12	Amosite
Flexible Min-K	1963-1975 Manville	20	Amosite
Superex-M	1930-1971 Waukegan	10	Chrysotile and/ or amosite
Superex 1900	1922-1971 Manville Waukegan Redwood City Watson	9.8-10	Chrysotile and/ or amosite
Superex 2000	1970-1973 Waukegan Redwood City	9-10	Amosite
Superex-SG	1970-1973 Waukegan	10	Chrysotile and/ or amosite
Thermobestos	1950-1974 Manville Long Beach Watson	7-12	Chrysotile and/ or amosite
Silicated Thermobestos	1966-1974 Manville	7-14	Chrysotile

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THERMAL INSULATION, CEMENTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
300 Cement	1932-1970 Asbestos	100	Chrysotile
301 Cement	1930-1971 Pittsburg Manville	15-16.5	Chrysotile
302 Cement	1930-1970 Asbestos Manville Waukegan Pittsburg	100 (at Asbestos only) 49-70	Chrysotile
304 Cement	1931-1969 Manville Waukegan	50-53	Chrysotile
319 Semi-Refractory Cement	1930-1969 Pittsburg Waukegan manville	20-21	Chrysotile
340 Cement	1931-1969 Manville Waukegan	60	Chrysotile
352 Cement	1930-1973 Asbestos Mine	100	Chrysotile
0352 Cement	1931-1969 Waukegan Manville	24-40	Chrysotile
364 Cement	1930-1955 Pittsburg Manville Waukegan	50-60	Chrysotile
400 Cement	1931-1969 Pittsburg Manville Waukegan	21.6-23	Chrysotile
450 Cement	1930-1971 Pittsburg Waukegan Asbestos Manville	15-19.5	Chrysotile

THERMAL INSULATION, CEMENTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
500 Cement	1933-1971 Pittsburg Waukegan Manville Asbestos	18-20	Chrysotile
678 Semi-Refractory Cement	1941-1969 Pittsburg Waukegan Manville	20-21	Chrysotile
Asbestile	1930-1982 Manville Waukegan	20.5-21.8	Chrysotile
Fibrofil	1940-1969 Waukegan Manville	30	Chrysotile
Fibrous Adhesive	1929-1981 Waukegan Pittsburg Manville	14	Chrysotile
Fil-Insul	1930-1969 Waukegan	70-79	Chrysotile and/or amosite
Fireite Furnace Cement	1954-1973 Zelienople Manville Pittsburg Toronto Waukegan	1.8-3.7	Chrysotile
Heat Treating Cement	1954-1973 Manville Pittsburg Zelienople Waukegan	1	Chrysotile
Laptite (Zeroseal)	1938-1954 Manville	15-16.9	Chrysotile
85% Magnesia	1931-1970 Manville Redwood City	7.5-15	Chrysotile

THERMAL INSULATION, CEMENTS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Superex	1931-1973 Manville Redwood City	8.4-12	Chrysotile
Thermobestos	1959-1969 Waukegan Manville	3.8-6	Chrysotile or amosite

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THERMAL INSULATION, PIPE

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Anti-Sweat	1903-1965 Manville Pittsburg Waukegan	0-72	Chrysotile
Asbestocel (aircell)	1902-1965 Manville Pittsburg Waukegan	52.6-98	Chrysotile
Asbestos Fire Felt	1918-1962 Manville Pittsburg Waukegan	41-61.2	Chrysotile and/or amosite
Magnesia	1902-1966 Manville Waukegan Redwood City	7.3-15	Chrysotile and/or amosite
Metal-On	1959-1974 Manville Long Beach	7-12	Chrysotile
Superex-M	1930-1971 Waukegan	10	Chrysotile and/or amosite
Superex 1900	1922-1973 Waukegan	10	Chrysotile and/or amosite
Thermobestos	1950-1974 Manville Watson Long Beach	7-12	Chrysotile and/or amosite
Silicated Thermobestos	1966-1974 Manville	7-12	Chrysotile

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THERMAL INSULATION, FINISHES

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Aertite	1926-1982 Waukegan Manville	14.7-18	Chrysotile
Insulkote SG	1929-1982 Waukegan Manville Pittsburg	11.7-15.5	Chrysotile
Insulkote ST	1929-1982 Waukegan Manville	14.7-16.7	Chrysotile
Insulkote ET	1929-1982 Marrero Waukegan Manville Pittsburg Los Angeles	6.2-21	Chrysotile

THERMAL INSULATION, PAPER, FELT, BLANKETS

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
12 ~~#~~ Asbestos Tape	1939-1984 Manville Waukegan	95	Chrysotile
15A Asbestos Jacket	1931-1980 Savannah Waukegan Los Angeles Manville Pittsburg Marrero	50-57	Chrysotile
45A Asbestos Jacket	1931-1980 Waukegan Manville Los Angeles Pittsburg	50	Chrysotile
~~#~~ 50 Asbestos Weather-proofing Felt	1931-1976 Pittsburg Manville Waukegan	50-55	Chrysotile
7700 Coated Asbestos Jacket	1931-1983 Manville Waukegan Pittsburg Marrero	24-26	Chrysotile
Asbestos Sponge Felt	1890-1961 Manville	68-80	Chrysotile
Asbestos Fire Felt	1891-1962 Manville Pittsburg	61-98	Chrysotile and/or amosite
Asbestos Firetard	1931-1980 Pittsburg Waukegan Manville	46-95	Chrysotile
Asbestos Jelly Rolls	1930-1968 Pittsburg Manville	90	Chrysotile and/or amosite
Asbestos Pipe Blanket	1898-1960 Manville	98-99	Amosite

THERMAL INSULATION, PAPER, FELT, BLANKETS

NAME OF PRODUCT	DATES/MFG	% FIBER	TYPE FIBER
Asbestos Roll Fire Felt	1891-1980 Manville Asbestos	91-95	Chrysotile and/or amosite
Asbestos Turbine Blanket	1951-1977 Manville	98-99	Amofil amosite
Ceilinite	1910-1973 Manville Asbestos	50-71	Chrysotile and/or amosite
D.C. Flexstone	1929-1980 Los Angeles	30-33	Chrysotile
Pan-O-Cel	1924-1959 Manville Pittsburg Waukegan	89 (paper) 71-80 (sheets)	Chrysotile
Thermo Fire Felt	1924-1949 Waukegan Manville	93-99.8	Chrysotile and/or amosite
Thermomat	1931-1969 Manville	49.5-96	Chrysotile
Thermotape	1951-1964 Manville	75-80	Amosite
Thermowrap	1950-1954 Asbestos Manville	90	Amosite
Vitribestos	1907-1960 Manville	70.2-97	
Vitro Fire Felt	1924-1949 Waukegan Manville	93-99.8	Chrysotile and/or amosite
White Surface Asbestos Jacket	1931-1968 Waukegan Pittsburg	82	Chrysotile

THERMAL INSULATION, SEALING COMPOUNDS

NAME OF PRODUCT	DATES /MFG.	% FIBER	TYPE FIBER
Albaseal	1953-1975 Manville	2.5-41	Chrysotile
Duxseal	1957-1982 Manville	52-69	Chrysotile
Nodrseal	1953-1975 Manville	50-59.4	Chrysotile
Stove Putty	1952-1971 Manville	15-25	Chrysotile
Type T Nodrseal (Branchtite)	1954-1975 Manville	50-55	Chrysotile
Uniseal Ventilator Caulking Compound	1957-1975	57-59	Chrysotile

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WALL SYSTEM PANEL

NAME OF PRODUCT	DATES/MFG.	% FIBER	TYPE FIBER
Corspan Panels	1968-1977 Manville	17.6-23.5	Chrysotile
Facespan	1969-1977 Manville	17.6-27.7	Chrysotile
Transitone Wall Unit	1945-1962 Billerica	49.6	Chrysotile

WINDOW SILL

NAME OF PRODUCT	DATE/MFG.	% FIBER	TYPE FIBER
Colorlith ACE	1968-1977 Manville	22.2-22.6	Chrysotile and/or Amosite
Colorsil ACE	1969-1977 Manville Jeffrey	17.6-23.5	Chrysotile
ACE Stone Sills	1969-1977 Manville Jeffrey	16.7-20.3	Chrysotile
ACE Colorsil and Colorlith Interior Window Stools	1963-1977 Manville	22	Chrysotile and/or Amosite

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